

Title (en)

Method for movement-adaptive interpolation of a television picture sequence and apparatus and applications therefor.

Title (de)

Verfahren zur bewegungsadaptiven Interpolation von Fernsehbildsequenzen sowie Anordnung und Anwendungen hierzu.

Title (fr)

Procédé pour l'interpolation adaptative en fonction de mouvement d'une séquence d'images et dispositif et applications de celui-la.

Publication

**EP 0154125 A2 19850911 (DE)**

Application

**EP 85100477 A 19850118**

Priority

DE 3408061 A 19840305

Abstract (en)

[origin: US4651207A] In order to effect motion adaptive interpolation of nontransmitted television image sequences, each based on at least two transmitted television image sequences, the transmitted sequences are received and segmentally divided into stationary and moving components, and the displacement of the moving components is determined by picture elements. These operations are carried out by electronically segmentally dividing each sequence into background regions which are to become visible and background regions which are to become hidden due to the movement of each moving component and deriving characteristic segment information having four possible values; deriving a set of filter coefficients from the character segment information and from information obtained as a result of determining displacement; and applying the filter coefficients to a motion adaptive interpolation filter for causing the filter to generate the nontransmitted image sequences.

Abstract (de)

Zur bewegungsadaptiven Interpolation von nichtübertragenen Fernsehbildsequenzen aus übertragenen Fernsehbildsequenzen wird eine mehrdimensionale bewegungsadaptive Interpolationstechnik verwendet. Aus dem übertragenen Bildinhalt werden charakteristische bewegungsrichtungsabhängige Segmentinformationen gewonnen, die zusammen mit den Displacements für jedes Bildelement zu einem Satz von Filterkoeffizienten für ein bewegungsadaptives Interpolationsfilter verarbeitet werden.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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